

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/019464

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ B23C 3/00, 5/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B21J 13/02
B23C 3/00, 5/10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2005, Japanese Registered Utility Model Gazette 1994-2005, Japanese Gazette Containing the Utility Model 1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2001-105086 A (HONDA MOTOR Co., Ltd.) 2001.04.17 (Family:none)	1-8
A	JP 2002-239676 A (YUTAKA SEIMITSU KOGYO, Ltd.) 2002.08.27 (Family:none)	1-8
A	JP 9-150305 A (RIKEN) 1997.06.10 & US 5919012 A & EP 788040 A1 & DE 69619789 T	1-8
A	JP 6-134648 A (MAKINO MILLING MACHINE Co., Ltd.) 1994.05.17 & US 5378091 A & EP 579371 A1 & DE 69326397 T	1-8
A	JP 8-263122 A (HONDA MOTOR Co., Ltd.) 1996.10.11 (Family:none)	1-8

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

10.03.2005

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29.3.2005

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